

Community Participation in Conservation Activities and Promoting River Health



Lessons Learned from Jasa Tirta I Public Corporation - Indonesia

Situation

- 1) The decrease of effective storage capacity of reservoirs due to **severe land erosion** and **sedimentation**.
- 2) **Water quality deterioration** due to less awareness.



Plant seedlings



Training for farmers association



Eco friendly material gully plug



Check dam construction

Approach

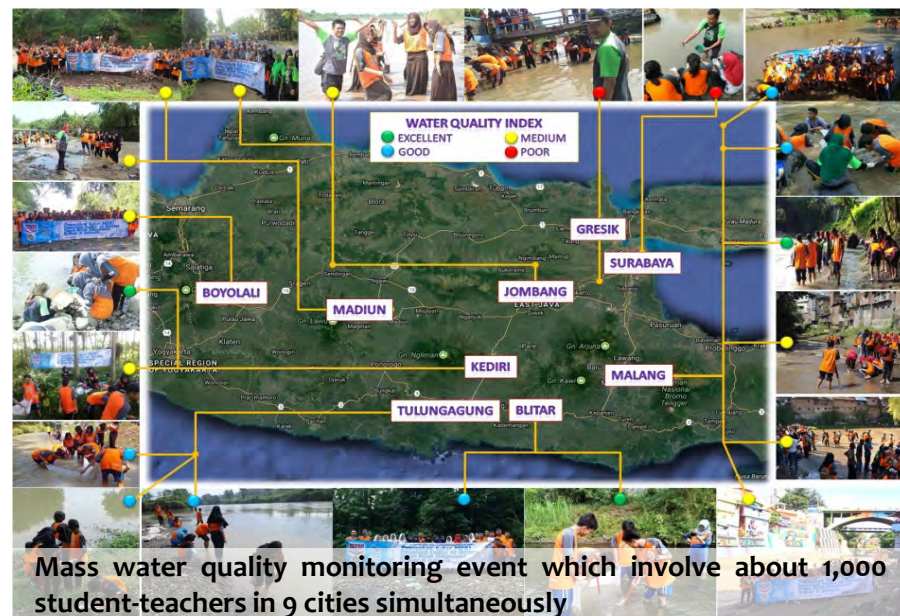
- 1) Raising **community awareness** and **participation** to conduct reforestation activities and erosion control structures development.
- 2) **Empowering** the senior high school **teachers** to be involved in promoting river health and introducing **awareness** activities to water conservation for their **students**.

Methodology

- 1) **Funding** and **training** for **farmers** association.
- 2) **Establishment of Communication Network** of schools to **monitor water quality** in the river basin.

Achievements

- 1) **Community awareness** in environmental restoration activities.
- 2) Development of **eco-friendly material** erosion control structures.
- 3) **Simultaneously water quality monitoring** involving 1,000 students-teachers in **nine cities** and two river basins in one day (**national record**).



Key for Success

- **Eco-friendly material**
- **Community participation**
- **Proactive school teachers-students**

Low Cost and Sustainable Hydro-information System



Lessons Learned from Jasa Tirta I Public Corporation - Indonesia

Situation

Needs for sufficient and sustainable hydro-information system for better water resources management.

Problems

The existing hydro-information system (Radio-based system) has several problems on its operational, such as :

- Difficulties to replace the broken equipments due to **discontinued spare parts**.
- High operation and maintenance (O&M) **cost**.
- **Disruption** from **another similar frequency band** (since the **previous system** was developed on **Radio-based system**).
- **Difficulties** in **changing H-V Curves** as they are **memorized** in the **ROM** of the **Data Processing Equipment**.
- **Disconnection** between the **new database** and the **Data Storage Equipment**.

Solution

Jasa Tirta I Public Corporation (PJT I) develops **GSM based hydro-information system** by using **common technology** and **domestic/local equipments**.

Key for Success

- **Low operation and maintenance cost**
- **Flexibility with another flood analysis system**
- **Easy development to the other river basins**
- **Working ratio > 90%**
- **High sustainability**
- **Quick dissemination**

